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**Figure 1**

## **Protein-Coated DNA Vaccines**

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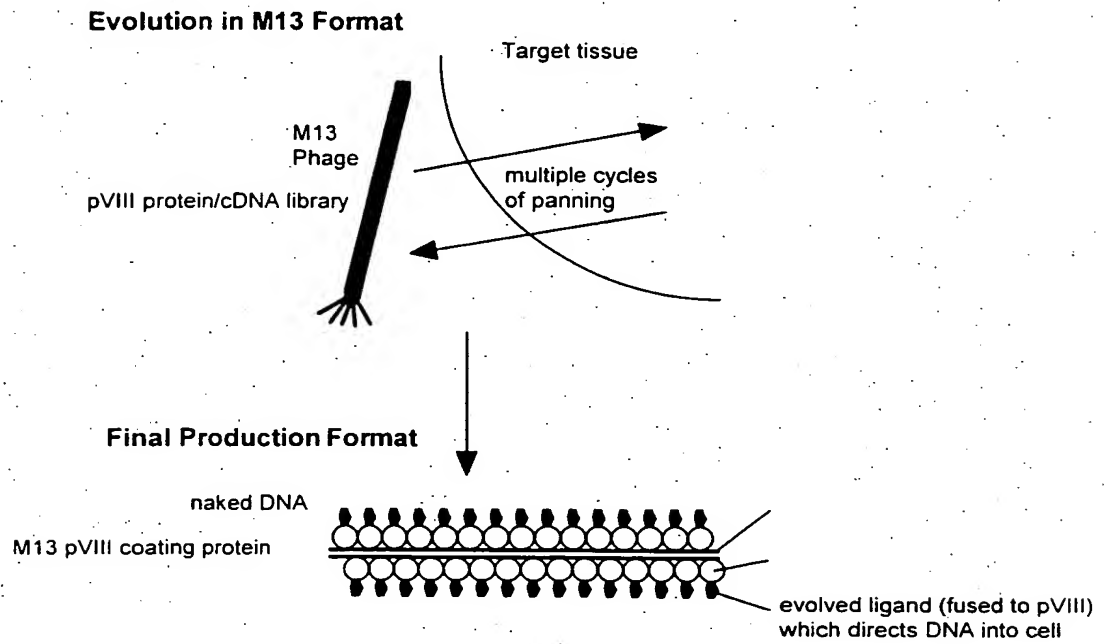


Figure 2

## M13 Evolved for Oral Delivery

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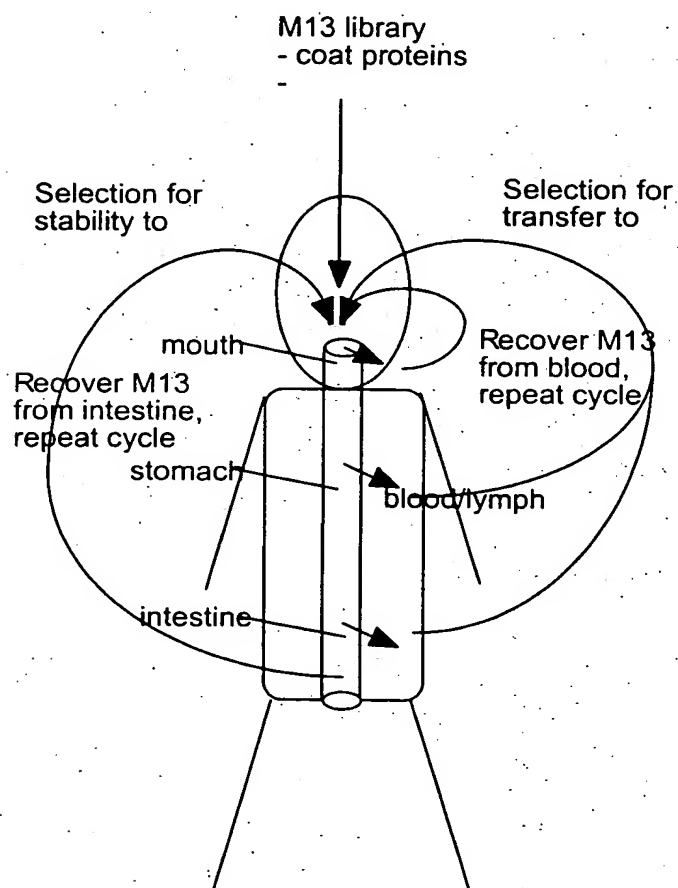


Figure 3: Alignment of bacterial enterotoxin DNA sequences illustrating the feasibility of family shuffling.

|                                 |     |     |
|---------------------------------|-----|-----|
| E. coli enterotoxin B           | 1   | 60  |
| E. coli enterotoxin B (porcine) |     |     |
| Cholera toxin SubB DNA-seq      |     |     |
|                                 | 61  | 120 |
| E. coli enterotoxin B           |     |     |
| E. coli enterotoxin B (porcine) |     |     |
| Cholera toxin SubB DNA-seq      |     |     |
|                                 | 121 | 180 |
| E. coli enterotoxin B           |     |     |
| E. coli enterotoxin B (porcine) |     |     |
| Cholera toxin SubB DNA-seq      |     |     |
|                                 | 181 | 240 |
| E. coli enterotoxin B           |     |     |
| E. coli enterotoxin B (porcine) |     |     |
| Cholera toxin SubB DNA-seq      |     |     |
|                                 | 241 | 300 |
| E. coli enterotoxin B           |     |     |
| E. coli enterotoxin B (porcine) |     |     |
| Cholera toxin SubB DNA-seq      |     |     |
|                                 | 301 | 360 |
| E. coli enterotoxin B           |     |     |
| E. coli enterotoxin B (porcine) |     |     |
| Cholera toxin SubB DNA-seq      |     |     |
|                                 | 361 | 375 |
| E. coli enterotoxin B           |     |     |
| E. coli enterotoxin B (porcine) |     |     |
| Cholera toxin SubB DNA-seq      |     |     |

Figure 4A

Generation of human dendritic cells from blood monocytes by culture in the presence of IL-4 and GM-CSF for seven days; phenotype of the cells before and after the culture.

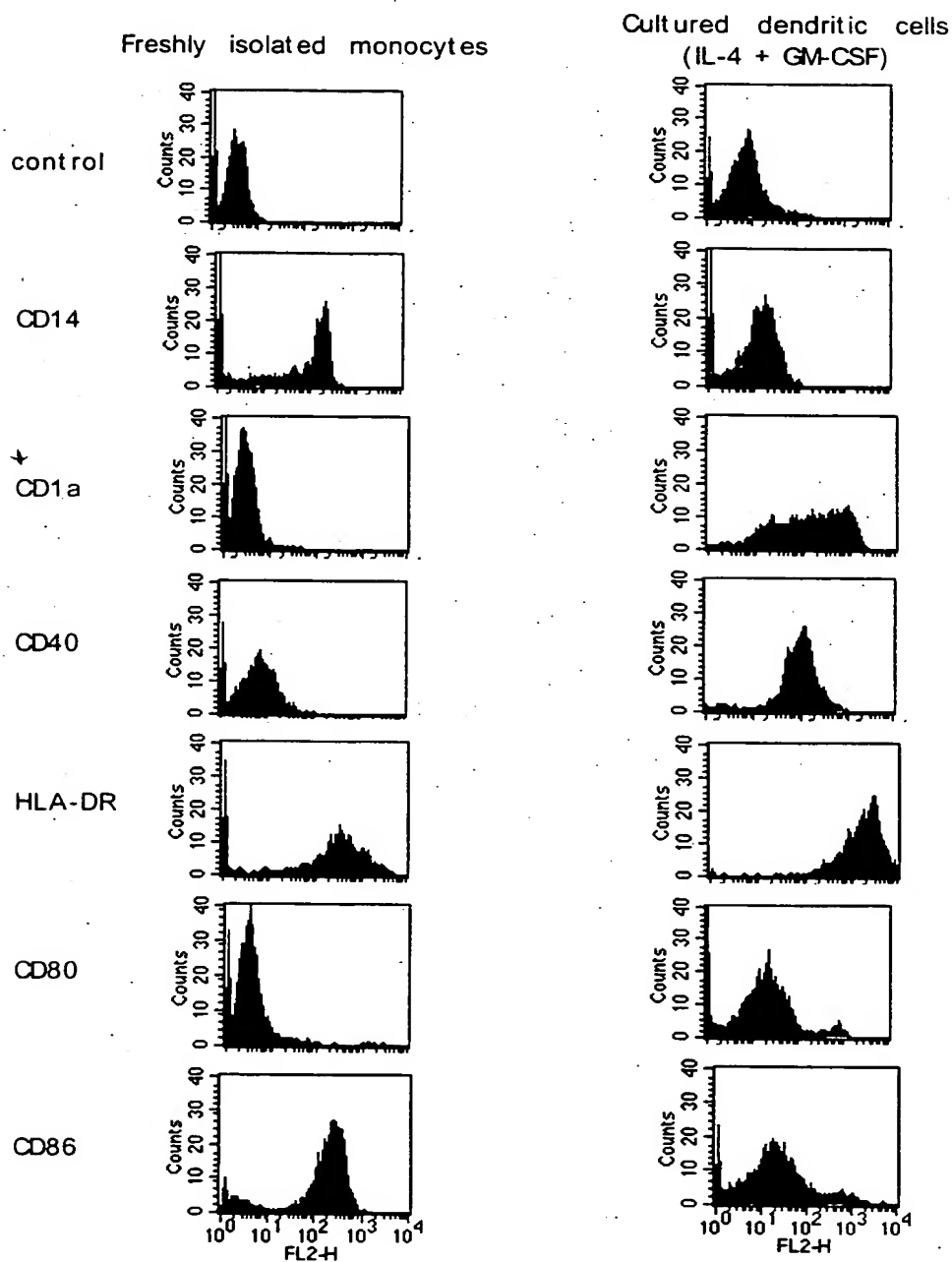
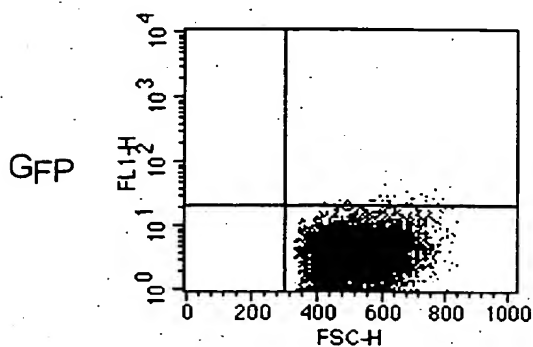


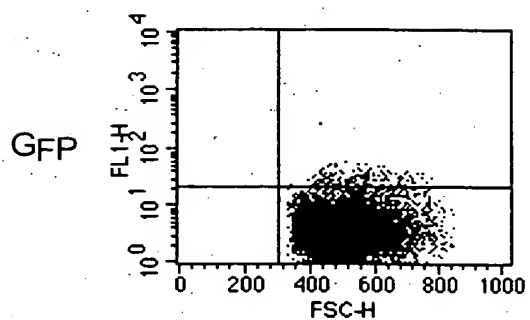
Figure 4B

Transfection of cultured dendritic cells by a plasmid encoding GFP and analysis by flow cytometry.



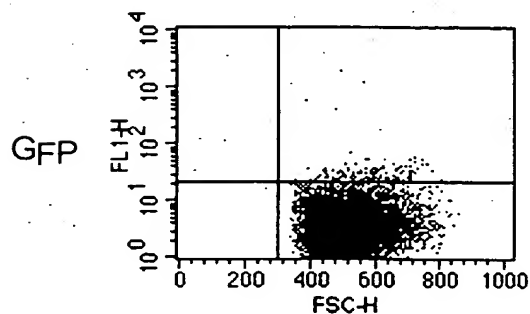
non-transfected

| Quad | Events | % Gated | % Total |
|------|--------|---------|---------|
| UL   | 0      | 0.00    | 0.00    |
| UR   | 34     | 0.34    | 0.34    |
| LL   | 0      | 0.00    | 0.00    |
| LR   | 9966   | 99.66   | 99.66   |



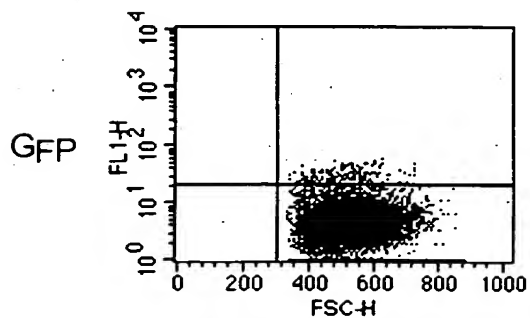
DOTAP 20ul

| Quad | Events | % Gated | % Total |
|------|--------|---------|---------|
| UL   | 0      | 0.00    | 0.00    |
| UR   | 155    | 1.55    | 1.55    |
| LL   | 0      | 0.00    | 0.00    |
| LR   | 9845   | 98.45   | 98.45   |



DOTAP 30ul

| Quad | Events | % Gated | % Total |
|------|--------|---------|---------|
| UL   | 0      | 0.00    | 0.00    |
| UR   | 139    | 1.39    | 1.39    |
| LL   | 0      | 0.00    | 0.00    |
| LR   | 9861   | 98.61   | 98.61   |



Superfect

| Quad | Events | % Gated | % Total |
|------|--------|---------|---------|
| UL   | 0      | 0.00    | 0.00    |
| UR   | 164    | 1.64    | 1.64    |
| LL   | 0      | 0.00    | 0.00    |
| LR   | 9836   | 98.36   | 98.36   |